

**MSR1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP17001B**

### Specification

#### MSR1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">P21757</a>
Other Accession	<a href="#">P21758</a> , <a href="#">NP_619729.1</a> , <a href="#">NP_619730.1</a>
Reactivity	Human, Mouse
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	336-364

#### MSR1 Antibody (C-term) - Additional Information

##### Gene ID 4481

##### Other Names

Macrophage scavenger receptor types I and II, Macrophage acetylated LDL receptor I and II, Scavenger receptor class A member 1, CD204, MSR1, SCARA1

##### Target/Specificity

This MSR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-364 amino acids from the C-terminal region of human MSR1.

##### Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

##### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

##### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

##### Precautions

MSR1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### MSR1 Antibody (C-term) - Protein Information

##### Name MSR1

## Synonyms SCARA1

**Function** Membrane glycoproteins implicated in the pathologic deposition of cholesterol in arterial walls during atherogenesis. Two types of receptor subunits exist. These receptors mediate the endocytosis of a diverse group of macromolecules, including modified low density lipoproteins (LDL) (PubMed:[2251254](#)). Isoform III does not internalize acetylated LDL (PubMed:[9548586](#)).

## Cellular Location

Membrane; Single-pass type II membrane protein.

## Tissue Location

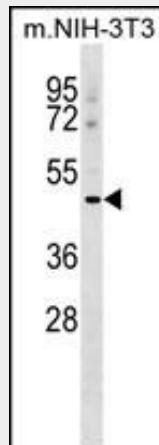
Isoform I, isoform II and isoform III are expressed in monocyte-derived macrophages. Isoform I and isoform II are expressed in the liver, placenta and brain.

## MSR1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## MSR1 Antibody (C-term) - Images



MSR1 Antibody (C-term) (Cat. #AP17001b) western blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane). This demonstrates the MSR1 antibody detected the MSR1 protein (arrow).

## MSR1 Antibody (C-term) - Background

This gene encodes the class A macrophage scavenger receptors, which include three different types (1, 2, 3) generated by alternative splicing of this gene. These receptors or isoforms are macrophage-specific trimeric integral membrane glycoproteins and have been implicated in many macrophage-associated physiological and pathological processes including atherosclerosis,

Alzheimer's disease, and host defense. The isoforms type 1 and type 2 are functional receptors and are able to mediate the endocytosis of modified low density lipoproteins (LDLs). The isoform type 3 does not internalize modified LDL (acetyl-LDL) despite having the domain shown to mediate this function in the types 1 and 2 isoforms. It has an altered intracellular processing and is trapped within the endoplasmic reticulum, making it unable to perform endocytosis. The isoform type 3 can inhibit the function of isoforms type 1 and type 2 when co-expressed, indicating a dominant negative effect and suggesting a mechanism for regulation of scavenger receptor activity in macrophages.

#### **MSR1 Antibody (C-term) - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Wang, Y., et al. J. Hum. Genet. 55(8):490-494(2010)  
Voruganti, V.S., et al. Am. J. Clin. Nutr. 91(6):1574-1583(2010)  
Nonomura, N., et al. Cancer Sci. 101(6):1570-1573(2010)  
Seizer, P., et al. Semin. Thromb. Hemost. 36(2):157-162(2010)

#### **MSR1 Antibody (C-term) - Citations**

- [AMP-activated protein kinase attenuates oxLDL uptake in macrophages through PP2A/NF-κB/LOX-1 pathway.](#)